

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>62532 (70904)</b>
INTERNATIONAL APPLICATION NO. PCT/JP03/07864	INTERNATIONAL FILING DATE 20 June 2003	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/517245</b>
TITLE OF INVENTION SPHERICAL ABERRATION CORRECTION METHOD FOR OPTICAL PICKUP, SPHERICAL ABERRATION FOCUS OFFSET CORRECTION METHOD FOR OPTICAL PICKUP, AND OPTICAL PICKUP		PRIORITY DATE CLAIMED 21 June 2002
APPLICANT(S) FOR DO/EO/US <b>Takahiro MIYAKE; Makoto HORIYAMA</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ul> </p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2))           <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto including drawings (18 pages).</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ul> </p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ul> </p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</p>		
Items 11 to 20 below concern document(s) or information included:		
<p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: *See page 3</p>		

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. <i>60/517245</i> INTERNATIONAL APPLICATION NO. <i>PCT/JP03/07864</i>		ATTORNEY'S DOCKET NUMBER <b>62532 (70904)</b>																				
21. <input checked="" type="checkbox"/> The following fees are submitted:		<b>CALCULATIONS</b> PTO USE ONLY																				
<b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) – (5)):</b> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... <b>\$1110.00</b> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$950.00</b> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$790.00</b> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$750.00</b> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100.00</b>																						
<b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>		<b>\$ 950.00</b>																				
Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).		<b>\$</b>																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>24-20 =</td> <td>4</td> <td>x 18.00 \$ 72.00</td> </tr> <tr> <td>Independent claims</td> <td>6-3 =</td> <td>3</td> <td>x 88.00 \$ 264.00</td> </tr> <tr> <td colspan="2"><b>MULTIPLE DEPENDENT CLAIM(s) (if applicable)</b></td> <td style="text-align: center;">+</td> <td style="text-align: center;"><b>\$</b></td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td style="text-align: center;"><b>\$ 1,286.00</b></td> </tr> </tbody> </table>		CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	24-20 =	4	x 18.00 \$ 72.00	Independent claims	6-3 =	3	x 88.00 \$ 264.00	<b>MULTIPLE DEPENDENT CLAIM(s) (if applicable)</b>		+	<b>\$</b>			<b>TOTAL OF ABOVE CALCULATIONS =</b>	<b>\$ 1,286.00</b>	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																			
Total claims	24-20 =	4	x 18.00 \$ 72.00																			
Independent claims	6-3 =	3	x 88.00 \$ 264.00																			
<b>MULTIPLE DEPENDENT CLAIM(s) (if applicable)</b>		+	<b>\$</b>																			
		<b>TOTAL OF ABOVE CALCULATIONS =</b>	<b>\$ 1,286.00</b>																			
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.		<b>\$</b>																				
<b>SUBTOTAL =</b>		<b>\$ 1,286.00</b>																				
Processing fee of <b>\$130.00</b> for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).		<b>\$</b>																				
<b>TOTAL NATIONAL FEE =</b>		<b>\$ 1,286.00</b>																				
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property +		<b>\$ 40.00</b>																				
<b>TOTAL FEES ENCLOSED =</b>		<b>\$</b>																				
		<b>Amount to be refunded:</b> <b>\$</b>																				
		<b>Amount to be charged:</b> <b>\$1,326.00</b>																				
a. <input type="checkbox"/> A check in the amount of <b>\$</b> _____ to cover the above fees is enclosed.																						
b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <b>04-1105</b> in the amount of <b>\$ 1,326.00</b> to cover the above fees. A duplicate copy of this sheet is enclosed.																						
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <b>04-1105</b> . A duplicate copy of this sheet is enclosed.																						
d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.																						
<b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.</b>																						
SEND ALL CORRESPONDENCE TO: David A. Tucker EDWARDS & ANGELL, LLP P.O. Box 55874 Boston, Massachusetts 02205 (617) 517-5508 CUSTOMER NUMBER: 21874		SIGNATURE: <i>David A. Tucker</i> NAME: <b>David A. Tucker</b> REGISTRATION NUMBER: <b>27,840</b>																				

DTOS Rec'd PCT/PTO 07 DEC 2004

10/517245

PTO-1390 (Rev. 10-2004)

Approved for use through 03/31/2007 OMB 0651-0021

U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

20  Other items or information: PCT/RO/101; PCT/ISA/210; copies of Japanese language documents cited in PCT/ISA/210 with English language Abstracts; PCT/IB/304; PCT/IB/308; International Publication No. WO 2004/001731 A1; Return Receipt Postcard

10/517245

DT09 Rec'd PCT/PTO 07 DEC 2004

Application No. (if known): Not Yet Assigned

Attorney Docket No.: 62532 (70904)

## Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. **EV 437818978 US** in an envelope addressed to:

MS PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

on December 7, 2004  
Date

Kathryn A. Grindrod  
Signature

Kathryn A. Grindrod  
Typed or printed name of person signing Certificate

Registration Number, if applicable

(617) 517-5534  
Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

PCT/RO/101; PCT/ISA/210 and copies of Japanese language documents cited with English language Abstracts; PCT/IB/304; PCT/IB/308; International Publication No. WO 2004/001731 A1  
Application Cover Sheet (1 page)  
Return Receipt Postcard  
Executed Oath or Declaration of the inventor(s)  
Information Disclosure Statement  
Form PTO-1449 (w/3 references)  
Assignment Recordation Cover Sheet  
Assignment document for recording  
Transmittal Letter to the United States Designated-Elected Office  
English language translation of Specification and claims (76 pages)  
Claims (13 pages)  
Abstract (1 page)  
Formal Drawings Figs 1-18 (18 sheets)  
Certificate of Express Mailing (1 page)  
Authorization to charge \$1,326.00 to deposit account 04-1105 to cover the fees for this submission